

## Workshop Overview

The conference will include presentations on innovative technologies, vendor displays, and product demonstrations. There are tremendous environmental and economic benefits associated with the technologies featured at the conference, which include lower energy and water use and reduced materials purchases.

At the Conference your business will be able to:

- ◆ Learn how companies have successfully incorporated innovative technologies into their operations
- ◆ Find new solutions to increase operating efficiency, stimulate new product development, and build a competitive advantage
- ◆ Discover the benefits and opportunities of renewable energy and other energy savings programs
- ◆ Network with business leaders and vendors about adopting new technologies
- ◆ Meet with government agencies to discuss potential funding opportunities
- ◆ Meet with university researchers to discuss research collaborations
- ◆ View technology demonstrations and vendor displays

## Who Should Attend?

- ◆ Operations and Plant Managers
- ◆ Maintenance Professionals
- ◆ Environmental, Health, and Safety Professionals
- ◆ Engineers
- ◆ Chief Financial Officers
- ◆ Technology Developers
- ◆ Researchers
- ◆ Facility Operators

## Directions to the Workshop

Holiday Inn  
242 Adams Place  
Boxborough, MA 01719  
Ph: 978-263-8701 ◆ Fax: 978-263-0518

## From the North:

I-495 to Exit 28 onto Route 111 East.  
Turn right off the ramp, drive over the highway bridge.  
Turn right onto Adams Place.

## From the South:

I-495 to Exit 28 onto Route 111 East.  
Turn left off the ramp. Turn right onto Adams Place.

## Registration

- ☐ Registration Fee \$50.00
- ☐ Government or Non-profit\* \$30.00

Name \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

### Please sign me up to earn:

- ☐ 6 TURP Credits ☐ 4 TCH Credits

\* Limited Scholarships are available for Government and Non-profit attendees.

Please select the afternoon session you plan to attend

1:00 PM - 2:15 PM

- ☐ Technologies for the Textile and Paper Industries
- ☐ Technologies for the Metal and Electronics Industries
- ☐ Energy Auditing and Renewable Energy
- ☐ Financial and Technical Assistance for the Implementation of New Technologies
- ☐ Biopharmaceuticals: Improving Process Efficiency—Part I

2:45 PM - 4:00 PM

- ☐ Water – Solar Thermal and Heat Recovery Systems
- ☐ Resources for Cleaning and Testing
- ☐ Technologies for the Plastics and Coatings Industries
- ☐ Nanotechnology and New Materials for Product Development
- ☐ Biopharmaceuticals: Improving Process Efficiency—Part II

To Register: **RSVP by March 30, 2007**

Make check payable to **“Associated Industries of Massachusetts”**

Complete form and send both by March 30, 2007 to:  
Mr. Bob Rio, Associated Industries of Massachusetts  
222 Berkley St., P.O. Box 763, Boston, MA 02117

Online registration with credit card is available on the AIM website at: <http://www.aimnet.org>. This will link to the AIM website's calendar of events page.

**NOTE:** You will have to register on the AIM website as a non-member before you can proceed to register for the event.

### For Additional Information:

Contact: Sue Lanza, [susan.lanza@state.ma.us](mailto:susan.lanza@state.ma.us) or 617-626-1068



**The Commonwealth of Massachusetts  
Executive Office of Environmental Affairs  
Office of Technical Assistance and Technology**

### Presents

**Cleaner Technology and Energy Efficiency:  
Structuring a Competitive Advantage**

**Thursday  
April 5, 2007**

**Holiday Inn  
Boxborough, Massachusetts**

[http://www.mass.gov/envir/ota/events/cleaner\\_tech.htm](http://www.mass.gov/envir/ota/events/cleaner_tech.htm)

### Additional Sponsors:

**Associated Industries of Massachusetts  
National Grid  
NSTAR Electric  
ACS Green Chemistry Institute**



Executive Office of Environmental Affairs  
Office of Technical Assistance and Technology  
100 Cambridge Street, Suite 900  
Boston, MA 02114

# Cleaner Technology and Energy Efficiency: *Structuring a Competitive Advantage*

## Workshop Agenda:

8:00 AM - 8:30 AM

### Registration and Continental Breakfast

8:30 AM - 9:00 AM

### Welcome

*Paul Richard, Director, Office of Technical Assistance and Technology*

### Turning Around A Business – The Mastex Story

Turning business around through the implementation of efficient and environmentally sound new technologies, lean manufacturing, and employee involvement.

*Larry Vincent, President, Mastex Industries*

9:00 AM - 9:30 AM

### Secretary's Introduction

*Ian Bowles, Secretary, Executive Office of Environmental Affairs*

9:30 AM - 10:15 AM

### Plenary Session

#### Energy Efficiency, Conservation, and Load Management

This session will address the Commonwealth's vision for energy conservation, energy auditing programs, and load management project opportunities. Financial incentives will also be discussed

- ♦ *Ann Bernick, Undersecretary for Energy, Executive Office of Environmental Affairs*
- ♦ *Michael McAteer, Manager of Business Energy Efficiency Services, National Grid*
- ♦ *Dr. Eric Winkler, Senior Analyst, ISO New England*

10:15 AM - 10:45 AM

### Break/Demonstrations (Exhibit Hall)

10:45 AM - 11:30 AM

### Keynote Address

#### Greening Production

Implementing Green Chemistry and Engineering into product design and production methods

*Paul Anastas, Director, Yale Center for Green Chemistry & Green Engineering*

11:30 AM - 12:00PM

### *Displays and Technology Demonstrations*

*Note: The Exhibit Hall will be also open during lunch*

12:00 PM - 1:00 PM

### Lunch

### Afternoon Breakout Sessions

1:00 PM - 2:15 PM

#### Technologies for the Textile and Paper Industries

- ♦ Digital Printing of Textiles
- ♦ High Performance Fibers
- ♦ Utilization of Pulp and Paper Manufacturing By-Products for Biofuels

#### Technologies for the Metal and Electronics Industries

- ♦ Microelectromechanical Systems
- ♦ Nanostructured Alloys for Use in the Hard Metal Coatings Industry
- ♦ Lead-free Solders for Nanowire Assembly and Integration
- ♦ Metal Deposition Using Supercritical CO<sub>2</sub>

#### Energy Auditing and Renewable Energy

- ♦ Funding Opportunities for On-Site Renewable Energy Projects
- ♦ On Conducting an Industrial Energy Audit and Implementing Recommendations
- ♦ Massachusetts Industrial Assessment Center Energy Auditing Program
- ♦ US EPA Energy Star Program

#### Financial and Technical Assistance for the Implementation of New Technologies

- ♦ Incentives For Implementing Energy Saving Technologies
- ♦ Business Resource Team: Massachusetts Incentives
- ♦ Loan Programs for Small Business Improvements

#### Biopharmaceutical Session:

##### Improving Process Efficiency - Part I

- ♦ *Open session on green design and processing for the biopharmaceutical industry. coordinated by the ACS Green Chemistry Institute Pharmaceutical Roundtable*

2:15 PM - 2:45 PM

### Break/Demonstrations (Exhibit Hall)

2:45 PM - 4:00 PM

#### Water - Solar Thermal and Heat Recovery Systems

- ♦ Solar Hot Water Systems
- ♦ Heat Recovery Systems

#### Resources Available for Cleaning and Testing

- ♦ Alternative Cleaning Solutions Database
- ♦ Microtox Rapid Assessment Technologies

#### Technologies for the Plastics and Coating Industries

- ♦ No VOC Latex Coating System
- ♦ Biobased Plastics
- ♦ Case Study: Thermal Oxidizer Shut-down by Eliminating Isopropanol in a Major Coating Formulation

#### Nanotechnology and New Materials for Product Development

- ♦ Biobased Nanospheres For Drug Delivery
- ♦ High Throughput Production of Nanoscale Materials
- ♦ Soft Materials for Biomimetic and Biomedical systems

#### Biopharmaceutical Session:

##### Improving Process Efficiency - Part II

- ♦ *Continuation of open session on green design and processing for the biopharmaceutical industry*

4:00 PM - Adjourn

**TURP and TCH Credits Available!**

**Space is Limited, RSVP by March 30!**